

PODWIDE, L.G., kandidat tekhnicheskikh nauk: BUTAYEV, D.A., kandidat tekhnicheskikh nauk.

Efficiency ratio of water-turbine intake tubes. [Trudy] MVTU  
no.18:28-58 '53. (MLRA 7:12)  
(Hydraulic turbines)

PODVIDZ, L.G.

ACHERKAN, N.S., doktor tekhnicheskikh nauk, professor, glavnyy redaktor;  
ANTSIFYEROV, M.S., kandidat fiziko-matematicheskikh nauk; ASTAKHOV, K.V.,  
professor; VUKALOVICH, M.P., professor, doktor tekhnicheskikh nauk;  
KOROLIN, A.I., kandidat tekhnicheskikh nauk; KRIPETS, E.S., inzhener;  
LAZAREV, L.P., kandidat tekhnicheskikh nauk; MAZYRIN, I.V., inzhener;  
MATYUKHIN, V.M., kandidat tekhnicheskikh nauk; NIKITIN, N.N., kandidat  
fiziko-matematicheskikh nauk; PANICHKIN, I.A., kandidat tekhnicheskikh  
nauk; PETUKHOV, B.S., kandidat tekhnicheskikh nauk; PODVIDZ, L.G.,  
kandidat tekhnicheskikh nauk; SIMONOV, A.F., inzhener; SHIRYAGIN, A.P.,  
kandidat tekhnicheskikh nauk; FAYNZIL'BER, E.M., professor, doktor  
tekhnicheskikh nauk; KHALIZEV, G.P., kandidat tekhnicheskikh nauk;  
YAN'SHIN, B.I., kandidat tekhnicheskikh nauk; MARKUS, M.Ye., inzhener,  
redaktor; KARGANOV, V.G., redaktor graficheskikh materialov, inzhener;  
SOKOLOVA, T.F., tekhnicheskij redaktor.

[A machinebuilder's manual in six volumes] Spravochnik mashinostroitelia  
v shesti tomakh. Izd. 2-e, ispr. i dop. Moskva, Gos. nauchno-tekhn.  
izd-vo mashinostroit. lit-ry, Vol. 2. 1954. 559 p. (MIRA 8:1)  
(Machinery--Construction) (Mechanical engineering)

BUTAYEV, Davlet Aslanbekovich; KAIMYKOVA, Zinaida Alekseyevna, PODVIDZ, Lev Grigor'yevich; POPOV, Kirill Nikolayevich; ROZHDESTVENSKIY, Sergey Nikolayevich; YAN'SHIN, Boris Ivanovich; KUKOLEVSKIY, I.I., professor, redaktor; NEKRASOV, B.B., redaktor; FRIDKIN, A.M., tekhnicheskij redaktor

[Book of problems in hydraulics for mechanical engineering schools]  
Zadachnik po gidravlike dlia mashinostroitel'nykh vuzov. Pod rad.  
I.I. Kukolevskogo. Moskva, Gos. energ. izd-vo, 1956. 343 p. (MLRA 10:1)  
(Hydraulics--Problems, exercises, etc.)

124-58-6-6682

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 54 (USSR)

AUTHORS: Podvidz, L. G., Kirillovskiy, V. L.

TITLE: On the Design of Jet Devices for Pumping Water out of Artesian Wells (K voprosu o raschete struynykh apparatov dlya pod'yema vody iz artezianskikh skvazhin)

PERIODICAL: V sb.: Gidromashinostroyeniye. (MVTU, Vol 71), Moscow, 1957, pp 3-14

ABSTRACT: Water-lifting devices for artesian wells of medium depth (about 60-70 meters) consisting of a centrifugal pump on the surface and a water-jet apparatus located in the well and fed by the surface pump are discussed. Two schematic arrangements of such water-lifting devices are given, which differ in the location of the water-jet apparatus (upstream and downstream of the pump). The procedure of matching the pumps and the water-jet apparatus is described with a view of obtaining the greatest possible efficiency for the water-lifting installation; graphical methods for the design analysis of a complete installation including the piping are provided for varying conditions of the hydraulic operation.

Card 1/1 1. Jet pumps--Design 2. Centrifugal pumps-- V. A. Arkhangel'skiy Applications

SOV/124-58-7-7653

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 45 (USSR)

AUTHORS: Podvidz, L.G., Butayev, D.A.

TITLE: The Effect of the Shape of a Curved Draft Tube on its (Hydraulic) Efficiency (Vliyaniye formy izognutoy otsasyvayushchey trubny na yeye koeffitsiyent poleznogo deystviya)

PERIODICAL: V sb.: Gidromashinostroyeniye (MVTU, Vol 71). Moscow, Mashgiz, 1957, pp 25-36

ABSTRACT: Set forth briefly are the results of an investigation of curved draft tubes of axial-flow variable-pitch-blade water turbines conducted for the purpose of improving their efficiency characteristics without the necessity of changing the height of the draft tube. The investigation, in various modified forms, was made with a model of the hydraulically effective section of the turbine on an air-turbine stand. To evaluate the characteristics of the draft tubes, their efficiency was determined by measuring the flow through them with spherical pressure-measuring heads placed in their inlet sections. Two experimental units were constructed: one to investigate the draft tubes in an untwisted axial flow, the other to study them under the real flow

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SOV/124-58-7-7653

The Effect of the Shape of a Curved Draft Tube (cont.)

conditions existing behind a turbine rotor. Of all the various types of draft tube examined, most efficient was found to be one with an elongated horizontal diffuser and an enlarged outlet area.

R.P. Vorontsov

1. Axial flow turbines--Efficiency
2. Axial flow turbines--Test results
3. Pipes--Applications

Card 2/2

PODVIDZ, L.G., kand.tekhn.nauk; KIRILLOVSKIY, Yu.L., kand.tekhn.nauk;  
~~KASHEKOV, L.Ya., inzhener.~~

Theoretical principles of designing jet apparatus for pumping water  
from deep wells. Nauch. trudy VIESKH 6:5-27 '59. (MIRA 13:12)  
(Jet pumps)

BUTAYEV, Devlet Aslanbekovich; KALMYKOVA, Zinsida Alekseyevna; PODVIDZ, Lev Grigor'yevich, dotsent; POPOV, Kirill Nikolayevich; ROZHDESTVENSKIY, Sergey Nikolayevich; YAN'SHIN, Boris Ivanovich; KUKOLEVSKIY, I.I., prof., red. [deceased]; VORONIN, K.P., tekhn. red.

[Problems in hydraulics for mechanical-engineering institutes]  
Zadachnik po gidravlike dlia mashinostroitel'nykh vuzov. Pod red. I.I.Kukolevskogo i L.G.Podvidza. Izd.2., perer. i dop. Moskva, Gos.energ.izd-vo, 1960. 440 p. (MIRA 13:11)  
(Hydraulics--Problems, exercises, etc.)

ANTSYPEROV, M.S., kand.fiz.-mat.nauk; VUKALOVICH, M.P., prof., doktor tekhn.nauk, laureat Leninskoy premii; KRIPETS, E.S., inzh.; LAZAREV, L.P., prof., doktor tekhn.nauk; MAZYRIN, I.V., inzh.; NIKITIN, N.N., kand.fiz.-mat.nauk; OCHKIN, A.V., inzh.; PANICHKIN, I.A., prof., doktor tekhn.nauk; PETUKHOV, B.S., prof., doktor tekhn.nauk; PODVIDZ, L.G., kand.tekhn.nauk; SIMONOV, A.F., inzh.; SMIRYAGIN, A.P., kand.tekhn.nauk; TOKMAKOV, G.A., kand.tekhn.nauk; PAYNZIL'BER, E.M., prof., doktor tekhn.nauk; KHALIZEV, G.P., kand.tekhn.nauk; CHESACHENKO, V.F., kand.tekhn.nauk; YAN'SHIN, B.I., kand.tekhn.nauk; ACHERKAN, N.S., prof., doktor tekhn.nauk, red.; PONOMAREV, KUDRYAVTSEV, V.N., prof., doktor tekhn.nauk, laureat Leninskoy premii; red.; 'SATEL', S.D., prof., doktor tekhn.nauk, red.; SERENSEN, S.V., akademik, red.; E.A., prof., doktor tekhn.nauk, red.; KARGANOV, V.G., inzh., red.graficheskikh materialov; GIL'DENBERG, M.I., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Manual of a mechanical engineer in six volumes] Spravochnik mashinostroitelia v shesti tomakh. Red.sovet N.S.Acherkan i dr. Izd.3., ispr. 1 dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.2. 1960. 740 p. (MIRA 14:1)

1. AN USSR (for Serensen).  
(Mechanical engineering) (Machinery--Construction)

BAYBAKOV, O.V.; BUTAYEV, D.A.; KALMYKOVA, Z.A.; PODVIDZ, L.G.;  
MAR'YANSKIY, L.P., red.; BORUNOV, N.I., tekhn. red.

[Laboratory course in hydraulics and pumping machinery] La-  
boratornyi kurs gidravliki i nasosov. [By] O.V. Baibakov i dr.  
Moskva, Gos. energ. izd-vo, 1961. 248 p. (MIRA 15:2)  
(Hydraulics) (Pumping machinery)

AVAKOV, R.A.; PODVIDZ, M.M.

[Principles of designing an ARF-50-type automatic crossbar telephone station; training aid] Osnovy postroeniia avtomaticheskoi telefonnoi stantsii koordinatnoi sistemy tipa ARF-50; uchebnoe posobie. Leningrad, Leningr.elektrotekhn.in-t sviazi im. M.A.Bonch-Bruevicha, 1960. 84 p.

(Telephone, Automatic)

(MIRA 13:11)

ZHDANOV, I.M.; PODVIDZ, M.M., otv. red.

[Problems of zoning, network formation and interexchange connections of automatic telephone stations] Voprosy raionirovaniia, uzloobrazovaniia i mezhstantsionnykh sviazi ATS; uchebnoe posobie. Leningrad, Leningr. elektrotekhnicheskii in-t sviazi, 1963. 91 p. (MIRA 18:6)

PODVIDZ, M.M.; KHANIN, G.B.

Comparison of controlling devices in automatic telephone  
exchanges of the crossbar system. 'Elektrosviyaz' 14  
no.7:60-65 J1 '60. (MIRA 13:7)  
(Telephone, Automatic)

LIVSHITS, B.S.; MELAMUD, E.A.; YELEKOYEVA, E.K.; MOVSHOVICH,  
I.Kh.; KHANIN, G.B.; PODVIDZ, M.M., dots.; METEL'SKIY,  
G.B., otv. red.; OBRAZTSOVA, Ye.A., red.

[Rural crossbar automatic exchange K-100/2000] Sel'skaia  
koordinatnaia ATS K-100/2000; informatsionnyi sbornik.  
Moskva, Sviaz', 1965. 136 p. (MIRA 18:11)

1. Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy  
telefonnoy svyazi Ministerstva svyazi SSSR (for all except  
Metel'skiy, Obratsova).

GRENISHIN, S.G.; PLATUNOV, Ye.S.; PODVIGALKIN, P.M.

Using selenium cells in photoelectric processes. Opt.-mekh.prom.  
25 no.1:5-10 Ja '58.

(Selenium cells) (Photoelectricity)

(MIRA 11:7)

ACC NR: AP6026778

SOURCE CODE: UR/0077/66/011/003/0201/0210

AUTHOR: Vinokurov, L. G.; Islyamov, V. A.; Podvigalkin, P. M.

ORG: State Optical Institute im. S. I. Vavilov (Gosudarstvennyy opticheskiy institut)

TITLE: Investigation of the parameters of selenium electrophotographic layers

SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 11, no. 3, 1966, 201-210

TOPIC TAGS: electrophotography, selenium layer property, selenium layer photosensitivity, photoelectromotive force

ABSTRACT: Layers of amorphous selenium used in electrophotography are obtained, as a rule, by evaporation in vacuum of an arbitrary selenium modification, followed by vapor condensation on a suitable substrate. Electrophotographic properties of selenium layers depend upon many parameters of the process. The present work is a description of research on the influence of residual atmosphere pressure and of the thermal treatment of the deposited Se layers at various pressures, upon their electrophotographic parameters. The initial selenium had an amorphous glassy structure; its purity was controlled by spectral analysis. A conventional vacuum evaporation system was used as the apparatus; a detailed description of the experimental parameters and their ranges is given. Selenium was evaporated at  $.7 - .9 \mu/\text{min.}$ , from a heated porcelain crucible upon glass substrate covered with a conductive transparent layer of  $\text{SnO}_2$ . The amount of Se was regu-

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UDC 772.93

ACC NR: AP6026778

lated to give layers 20  $\mu$  thick, controlled by a MIS-11 microscope. The surface structure was studied under the MIM-7 metallographic microscope. Measurements of the Se layer properties were made after a 2-3 months aging. Higher pressures (vacuum deterioration) lead to a lower deposit density and a porous layer structure composed of longer and coarser needles. Detailed results of the dependence of limiting potentials, potential decay time constants and spectral sensitivity upon deposition vacuum pressure and temperature of thermal treatment are given. It is concluded that the basic parameters of selenium layers can be influenced over fairly wide limits by the pressure of the residual gases during deposition and by a subsequent thermal treatment of the deposited layers.

SUB CODE: 14, 20/

SUBM DATE: 16Jan65/

ORIG REF: 018/

OTH REF: 009

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PODVIK ALKIN P. M

P.3

SOV 77-A-2-15/18

25 (a) 23 (5)

AUTHOR:

TITLE:

Lyalikov, I.S.  
Successes of Soviet Electrography (Uspehi sovetskoy elektrofotografii) A Scientific and Technical Conference on Questions of Electrography (nauchno-tekhnicheskaya konferentsiya po voprosam elektrofotografii).  
Chernaya konferentsiya i prikladnoy fotografii i kinematografii.  
Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol. 8, Nr 2, pp 149-152 (USSR)

PERIODICAL:

ABSTRACT:

This is an account of a scientific and technical conference on electrography, the first to be held in the Soviet Union and evidently in the world. It was organized in Vil'nyus on December 16-19, 1958 by the Soviet Narodnoye nauchno-tekhnicheskoye obshchestvo (National Academy of the Lithuanian SSR), the Gosstatvennyy nauchno-tekhnicheskyy komitet Sovetskoye obshchestvo (State Scientific and Technical Committee of the Council of Ministers of the Lithuanian SSR) and the Nauchno-issledovatel'skiy institut elektrofotografii (Scientific Research Institute of Electrography). The conference, attended by over 300 scientists, was held in the Lithuanian SSR. Deputy Chairman of the Council for National Economy of the Lithuanian SSR, I. Kul'vets, after whom I. Zhillevich, reviewed the state of electrography, development of electrography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photoactive materials with high dark resistance; b) physical research into the internal photoeffect; c) development of photoconductor layers; d) development of photoconductor layers; e) development of the theory of the electrophotographic process; f) development of electrophotographic layers in color units. K.Z. Plavina (speaking also for I.I. Zhillevich, Sverdlov) reported on some research on the semi-conductor of a semiconductor electrophotographic device, and Ptadkin gave a report on highly sensitive electrophotographic layers in an electrophotographic device, and reviewed the operation process of the electrophotographic image on the basis of the present theory. He also described the design of an electroresistometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the circuit of an electrophotographic copy, and then spoke on the film used describing the latter and the development of the latent electrophotographic image in liquid developers.

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SOV/77-A-2-15/18  
Successes of Soviet Electrotopography: A Scientific and Technical Conference on Questions of Electrotopography

K.M. Vinogradov described some of the features of the cascade and liquid methods of electrotopography development. Yu. V. Karpeshko devoted his topographic criterion of light sensitivity of the electrotopographic process. After the sensitivity of the electrotopographic on methods of determining the light sensitivity of electrotopographic layers. A.N. Chernyshov placed prospects of developing the light sensitivity of electric and magnetic polygraphic processes on the part of I.I. Zhilovskiy, V.A. Gromov (speaking), P.I. Zhilovskiy, O.V. Gromov (speaking), also Faush of electrotopographic reported on the development of electrotopographic recording equipment. A.S. Borisovich, N. speaking also for I.I. Zhilovskiy, A.S. Borisovich on the use of Yul'dika and M.I. Rubinskaia reported on oscillographs of electrotopographic methods. V.P. Yurchenko and other recording is in recording the possibility of speaking also for instruments. Images from the electrotopographic recording also for K.M. Kuznetsov, I.I. Kozlovskiy, Kalinauskens, M.K. Maysens, I.I. Zhilovskiy, B.I. M.A. Montriana gave a detailed description of laboratory and machine methods of producing photos of laborator papers (zinc oxide was used). A.A. Sukhoy, conductor S.V. Fedotov and T.Y. Gromov, Y.A. Gromov, Gromov and industrial machine (G) described a laboratory papers. T.A. Shishkina (G) described a laboratory papers reported on a method of producing photoconductor materials using an a/c bridge. Electrotopographic (speaking also for A.I. Giken, S.I. Khotimovich spoke on developing materials for electrotopography and for electrotopography, including electrotopography reverse electrotopography, including electrotopography measuring the electrostatic potential of electrotopographic layers, stressing that the electrotopographic should not be placed above a layer with electrolyte electrodes (speaking also for A.G. Garvey, A.V. Galpov, S. Kheyfets) spoke on the practice of producing samples produced in an electrostatic field, and the development of electrotopographic paper factories. I.L. Khamirovskiy then presented a historical review of the development of electrotopographic methods in which he referred to the work of the Scientific Research Institute of Electrotopography in Vil'nyus and the Institut polygraphique de la recherche scientifique (P.P.S.) (Polygraphic Machine Building Institute (Moscow)). Details were then held

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on methods of measuring the potential of charged electro-  
 photographic layers; the vibration pick-up most-used  
 was shown in B.I. Tikhonov's report to be not always  
 accurate. S.G. Grishin stated that the bad influence  
 of the oscillating electrode can be eliminated if the  
 electrode probe above its surface is fixed and the pick-  
 up is connected to it by a shielded cable. In the de-  
 bate on Ye.L. Nemirovskiy's report it was stated that  
 the research of Academician A.M. Terenin and Ye.E.  
 Patsyko should be considered as the basis of all work  
 on electrophotographic papers with ZnO, as they were  
 the first to show the possibility of optical sensitiza-  
 tion of ZnO. The first results in this direction were  
 obtained by A.M. Terenin and Ye.E. Patsyko in 1954  
 via a corona discharge. A.I. Kuznetsov and Ye.P. Za-  
 yentis reviewed some of the problems of the use of  
 electrographic methods in radiography. I.I. Krut'ko  
 (speaking for Ye. Y. Zilberberg, L. Blaviz, Yu. V.  
 Vashchuk and Yu. A. Zibut) reported on relaxation pro-  
 cesses in semiconductor layers using a vibration electro-  
 meter. Iu.K. Vishakov gave a report on research on some  
 physical properties of the polycrystalline layers of  
 selenium cadmium. M.P. Mikheyevichyuk spoke on some  
 of the photoelectric properties of Sb<sub>2</sub>S<sub>3</sub> and Sb<sub>2</sub>Se<sub>3</sub>; the  
 absorption maximum of the latter is about 900 mμ.  
 S.M. Geyman reported on methods of obtaining selenium  
 light-sensitive layers, including sublimation and ther-  
 mal treatment; it was also found that the sensitivity  
 of the layers increased after storage for 1.5 to 2 months  
 at room temperature. S.F. Podyvalkin (speaking also  
 for S.G. Grishin) spoke on research into the elec-  
 trical properties of electrophotographic layers of  
 amorphous selenium and powdered zinc oxide. N.K.  
 Chigorov (speaking also for A.S. Gulyaytis) discussed  
 the production of selenium layers and some of their  
 properties. Ye. V. Zilberberg, I.I. Krut'ko and  
 Ye. V. Zhigova gave the following reports on ferro-  
 magnetography: "Electrodeposition of Magnetically  
 Sensitive Layers" (Ye. V. Zhigova), "Electrodeposition  
 with Given Magnetic Characteristics" (I.I. Krut'ko),  
 "Visualization of Magnetic Oscillograms by the Ferro-  
 graphic Method" (S. V. Patrakov), "Ferrographic Recording  
 of Facsimile Images" (I. I. Zhilayevich, I. I. Gikis, S.  
 Ye. Buchet, I. I. Karyaise, A. K. Kizhis, M. K. Kozlov),  
 "Ferrographic Recording of Facsimile Images" (Ye. V. Zhigova,  
 Ye. V. Zhigova, I. I. Zhilayevich, I. I. Gikis, S. Ye.  
 Buchet, I. I. Karyaise, A. K. Kizhis, M. K. Kozlov),  
 also an exhibition showing the work of the Electro-  
 graphic Institute. The most important conclusion of  
 the conference was that a solid approach had been made  
 to the possibility of wide technical use of the methods  
 of electrography. It was considered that although work  
 in this field actually started only in 1955-56 it has covered as much ground  
 as the USA in 10 years. This is undoubtedly the most  
 rapid development in the history of the field. It was  
 the first to arrive at them the conference observed  
 that the Americans took good care that no important  
 information appeared in the literature available.

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68333

242600

AUTHOR:

Podvigalkin, P.M.

SOV/51-8-1-40/40

TITLE:

On the Relationship Between the Photoelectric Properties of an Electrophotographic Layer and the Properties of a "Longitudinal" Photoresistor.<sup>5</sup>

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 1, pp 146-148 (USSR)

ABSTRACT:

An electrophotographic layer consists of a photosensitive semi-conductor (usually Se or zinc oxide) on a conducting base and with a surface charge of density  $q$ . Such a system is equivalent to an electric double layer with a potential  $V = 4\pi q d_{eff} / \epsilon$ , where  $d_{eff}$  and  $\epsilon$  are the effective thickness and permittivity of the semi-conducting layer. Illumination of the system (usually with rectangular pulses) reduces sharply the layer potential  $V$  and the resultant potential distribution, representing the distribution of incident light, becomes a latent image. The present paper relates dynamic properties of an electrophotographic layer during and immediately after illumination with its steady-state properties when the layer is considered as a "longitudinal" photoresistor. An equation is derived which gives the layer potential  $V$  at any time  $t_n$  from the beginning of the illumination pulses ( $t = 0$ ):

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On the Relationship Between the Photoelectric Properties of an Electrophotographic Layer and the Properties of a "Longitudinal" Photoresistor

$$\ln \frac{V}{V_0} = \frac{1}{1-m} \ln \left\{ 1 - \frac{1-m}{V_0^{1-m}} \sigma_{0\Phi}^i(E) \left[ t_3 + \tau \left( e^{-\frac{t_3}{\tau}} - 1 \right) \right] \right\} \quad (6)$$

Here  $V_0$  is  $V$  at  $t = 0$ ;  $E$  is the illumination;  $\sigma_{0\Phi}^i = J_{\Phi}^{cm}/V_0^m$ ;  $J_{\Phi}^{cm}$  is the steady-state photocurrent;  $m$  is a constant;  $V_3$  is  $V$  at  $t = t_3$ ;  $t_3$  is the exposure (duration of the light pulse), and  $\tau$  is the photocurrent relaxation time. Eq (6) is plotted (continuous curves) in a figure on p 147 for  $t_3 > \tau$  (the left-hand

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On the Relationship Between the Photoelectric Properties of an Electrophotographic Layer and the Properties of a "Longitudinal" Photoresistor

part of the figure) and  $t_2 < \tau$  (the right-hand part of the figure). The dashed curves represent Eq (6) for the case when  $(t_n - t_2)/\tau \gg 1$ . Acknowledgment is made to C.G. Grenishin who directed this work and advised on it. There are 1 figure and 2 Soviet references.

SUBMITTED: April 8, 1959

Card 3/3

PODVIGIN, N.F.

Correlation between IERG source location, its form and the  
distribution of potentials inside the retina. Biofizika  
10 no.4:681-688 '65. (MIRA 18:8)

1. Institut fiziologii im. I.P. Pavlova AN SSSR, Leningrad.

PODVIGIN, N.F.

Source of intraretinal potentials. Biofizika 10 no.2:370-371 '65.  
(MIRA 18:7)

1. Institut fiziologii imeni Pavlova AN SSSR, Leningrad.

ACC NR: AP7004790

SOURCE CODE: UR/0413/67/000/001/0125/0126

INVENTOR: Tutorskaya, N. N.; Chernov, O. V.; Podvigina, O. P.;  
Koroleva, S. P.

ORG: none

TITLE: Alloy for brazing zirconium. Class 49, No. 190178 [announced  
by State Scientific Research and Design Institute of Alloys and Non-  
Ferrous Metals Processing (Gosudarstvennyy nauchno-issledovatel'skiy i  
proektnyy institut splavov i obrabotki tsvetnykh metallov)]

SOURCE: Izobreneniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1,  
1967, 125-126

TOPIC TAGS: brazing alloy, copper <sup>base</sup> alloy, palladium <sup>containing</sup> alloy, zirconium containing  
alloy, titanium containing alloy, <sup>metal brazing</sup>

ABSTRACT: This Author Certificate introduces an alloy containing copper and palladium  
for brazing zirconium. To improve the quality of brazed joints, zirconium  
is added to the alloy. In a variant, components of the alloy are set as  
follows: palladium 19-20%, zirconium 3-4.5%, copper balance; in alloy  
containing 17-20% palladium, and 2-3% zirconium, 1.0-1.5% titanium is  
added (copper balance).

SUB CODE: 11,13/ SUBM DATE: 20 Jan 64/ ATD PRESS: 5117 [AZ]

Card 1/1

UDC: 621.791.36

PODVIGINA, Yelena Prokof'yevna; VINOGRADOV, Leonid Konstantinovich;  
GIL'GULIN, M., red.; KLIMOVA, T., tekhn.red.

[Academician and hero; O.IU.Schmidt] Akademik i geroi; ob  
O.IU. Shmidte. Moskva, Gos.izd-vo polit.lit-ry, 1960. 30 p.  
(Schmidt, Otto IUL'evich, 1891-1956)

PODVIGINA, Ye.P. (Moskva)

A great scientist and statesman; O.IU.S. Schmidt's 70th birthday.  
Priroda 50 no.10:120-124 0 '61. (MIRA 14:9)  
(Shmidt, Otto Iul'evich, 1891-1956)

PODVINEC, SRECKO.

PODVINEC, Srecko; SYKORA, Vlasta

Pathophysiological mechanism of the corrosive lesions in the esophagus. Radovi Med. fak. Vol.2:209-212 1953.

1. Otorinolaringoloska klinika Medicinskog fakulteta u Zagrebu  
(Predstojnik: akademik prof. dr. B.Gusic). (Primljeno 29.I.1953)  
(ESOPHAGUS, stenosis

\*corrosive lesions, pathophysiol.)

PODVINEC, Srecko; DORDEVIC, Slobodan; CVETKOVIC, Stevan

Our views on biopsy in the field of otorhinolaryngology.  
Srpski arh. celok. lek. 91 no.4:411-417 Ap '63.

1. Otorinolaringoloska klinika Medicinskog fakulteta Univerzitetu u Beogradu Upravnik: prof. dr Srecko Podvinec.

(LARYNGEAL NEOPLASMS)

(OTORHINOLARYNGOLOGY)

(NEOPLASM DIAGNOSIS)

(BIOPSY)

S

YUGOSLAVIA

PODVINEC, Srecko; DJORDJEVIC, Slobodan and SAVIC, Dragoslav;  
Otorhinolaryngology Clinic Medical Faculty (Otorinolaringoloska  
klinika Medicinskog fakulteta), Head (Upravnik) Prof Dr Srecko PODVINEC,  
Belgrade.

"Transformation of a Radically Operated Middle Ear Into a Functional  
System by the Austin-Shea Method."

Belgrade, Srpski Arhiv za Tselokupno Lekarstvo, Vol 93, No 4, Apr 1965;  
pp 381-384.

Abstract [English summary modified]: Report on this reconstructive  
surgical procedure as carried out in four patients; all showed adequate  
if not spectacular success as far as hearing improvement is concerned.  
2 Bilateral audiograms, case report, 1 Yugoslav and 3 Western references;  
manuscript received 2 Aug 64.

1/1

- 212 -

PODVINEC, Srecko, prof. dr.

Surgical treatment of chronic diseases of the middle ear.  
Med. glas. 19 no. 6:131-134 J1-Ag ' 65.

1. Otorinolaringoloska klinika Medicinskog fakulteta u  
Beogradu (Upravnik: prof. dr. S. Podvinec).

BOŠNJAKOVIĆ, Bogoljub; PODVINEC, Srećko; MERKAS, Zlatko

Telecobalt therapy in otorhinolaryngology. Srpski arh. celok.  
lek. 91 no.3:283-288 Mr '63.

1. Radioloski institut Medicinskog fakulteta Univerziteta u  
Beogradu Upravnik: prof. dr Bogoljub Bošnjaković Klinika za  
uvo, nos i grlo Medicinskog fakulteta Univerziteta u Beogradu  
Upravnik: prof. dr Srećko Podvinec.

(RADIOISOTOPE TELETHERAPY)  
(COBALT ISOTOPES)  
(LARYNGEAL NEOPLASMS)  
(NEOPLASM RADIOTHERAPY)

PODVINEK, Srecko; MIHAIJEVIC, Biljana; MARCETIC, Aleksandar

Passage of streptomycin through the placental barrier. Srpski  
arh. celok. lek. 92 no.4:373-378 Ap '61

1. Otorinolaringoloska klinika Medicinskog fakulteta Univer-  
ziteta u Beogradu (Upravnika prof. dr. Srecko Podvinac) i  
Bioloska laboratorija Fabrike "Galebnika" u Beogradu  
(Sef: Aleksandar Marcetic).

YUGOSLAVIA

PODVINEC, Srecko; GJORGJEVIC, Slobodan; and CVETKOVIC, Stevan; Otorhinolaryngology Clinic (Otorinolarinoloska klinika ) , Head ( Upravnik ) Prof Dr Srecko PODVINEC, Medical Faculty of University of Belgrade.

"Biopsy Procedures in the Field of Otorhinolaryngology."

Belgrade, Srpski Arhiv za Teslokupno Lekarstvo, Vol 91, No 4, Apr 63; pp 411-417.

Abstract [English summary modified]: General essay advocating wider use of biopsy in this specialty for earlier and more reliable diagnosis, with many citations from 'authorities' to buttress up contentions. Seven Yugoslav (including 3 personal communications) and 17 Western references.

1/1

- 24 -

PODVINEC, Srecko; prof. dr.

Deafness consecutive to change of labyrinthine pressure. Med.  
glasn. 9 no.2-3:60-63 Feb.-Mar '55.

1. Otorinolaringoloska klinika Medicinskog fakulteta u Beogradu  
(Upravnik prof. dr S. Podvinec)  
(LABYRINTH, pathology,  
pressure changes causing deafness)  
(HEARING DISORDERS, etiology and pathogenesis,  
labyrinthine pressure changes)

PODVINEC, Srećko; SIMONOVIC, Miodrag; DORDEVIC, Slobodan;  
~~SILJANOVIĆ~~, Petar; SAVIC, Dragoslav; CVETKOVIC, Stevan

Results of our studies on the effects of street noises on  
the ear. Srpski arh. celok. lek. 91 no.2:169-180 F '63.

1. Otorinolaringoloska klinika Medicinskog fakulteta Uni-  
versiteta u Beogradu Upravnik: prof. dr. Srećko Podvinec.  
(ACOUSTIC TRAUMA)

PODVINEC, Sredko; SAVIC, Dragoslav

Use of osteoplastic methods in surgery of the frontal sinuses.  
Srpski arh. celok. lek. 87 no.6:497-502 Je '59.

1. Otorinolaringoloska klinika Medicinskog fakulteta u Beogradu,  
upravnik: prof. dr Sredko Podvynec.  
(FRONTAL SINUS surg.)

PODVINEC, Srecko; POPOVIC, Vladeta; LAZAREVIC, Dragica

Our treatment of laryngeal carcinoma -- several year results.  
Srpski arh. celok. lek. 91 no.5:461-465 My '63.

1. Otorinolaringoloska klinika Medicinskog fakulteta Univerziteteta u Beogradu Upravnik: prof. dr Srecko Podvinec Radioloski institut Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Bogoljub Bosnjakovic.

(LARYNGEAL NEOPLASMS) (LARYNGECTOMY)  
(NEOPLASM RADIOTHERAPY) (NEOPLASM STATISTICS)

S

[YUGOSLAVIA

Srecko PODVINEC, Miodrag SIMONOVIC, Slobodan GJORGJEVIC, Petar STEFANOVIC  
Dragoslav SAVIC and Steval CVETKOVIC, ORL Clinic of Medical Faculty of  
University (Otorinolaringoloska klinika Medicinskog fakulteta Univerzi-  
teta) Head (Upravnik) Prod Dr Srecko PODVINEC, Belgrade.

"Role of City Noise on the Hearing Organ in Belgrade."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 91, No 2, Feb 63;  
pp 169-180.

Abstract [English summary modified]: Audiologic tests of 47 busy-corner  
traffic policemen, 40 railroad post office workers, 80 persons living  
in same railroad post-office building or a few other noisiest streets in  
the Yugoslav capital revealed very high incidence of auditory impairment.  
Continuous (night-and-day) noise is apparently most noxious. Many factors  
(including air pollution) may contribute. Further studies and consideration  
of these aspects in urban planning and building legislation is urged.  
Table; 3 graphs, 3 photographs; 6 audiograms; 5 Western, 2 Soviet and  
13 Yugoslav references.

L/1

YUGOSLAVIA

Srecko PODVINEC, Slobodan GJORGJEVIC and Radmila PAYLOVIC. Clinic of Otorhinolaryngology of Medical Faculty, of University (Otorinolaringološka klinika Medicinskog fakulteta Univerziteta) Head (Upravnik) Prof Dr Srecko PODVINEC, Belgrade.

"Audiologic Rehabilitation of Children with Partial or Complete Deafness."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 90, No 11, Nov 62; pp 1087-1095.

Abstract [English summary modified]: A discussion emphasizing the need for early (at the start of the second year of life) rehabilitation with hearing aid, and need for diagnosing and treating such children in an "audiologic center" having team of "otologist, pediatrician, surdopedagogue, psychologist, psychiatrist, phoniatrician, speech therapist, stomatologist and social worker..." with mother and environment under control. Four photographs of facilities and methods; 8 Yugoslav and 2 Western references.

1/1

PODVINEC, S.; STEFANOVIC, B.; DORDEVIC, S.; SIMONOVIC, M.

Preventive measures in noise control. Higijena, Beogr. 12 no.4:305-316 '60.

(NOISE prev & control)

ZUJOVIC, Jovanka; PODVINEC, Srecko; DORDEVIC, Slobodan; PETROVSKI, Stevan

Role of otogenic infection on the occurrence of dystrophy and diarrhea in infants and small children. Srpski arh. celok. lek. 88 no.3:271-277  
Mr '60.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Matija Ambrosic. Otorinolaringoloska klinika Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Srecko Podvinec. 2. Clanovi Uredivackog odbora, "Srpski arhiv za celokupno lekarstvo" (for Zujovic and Dordevic).

(OTITIS in inf & child) (DIARRHEA in inf & child)  
(INFANT NUTRITION DISORDERS etiol)

PODVINSKA F.

Brestslava, Bratislavsko Lekarsko Listy, Vol III, No 4, 62  
Copyright: none

27

1. Experience with a Parotidaceous Fraxinaphatic Cholelithiasis. A. KALOCZY, pseudonym of the Research Institute of the Institute of Vascular Pathology (Bratislava). Bratislavsko Lekarsko Listy, No 4, 1968. (Slovakian Academy of Sciences, Bratislava, 1968). (English summary.)
2. Applicability of an Antimony Electrode for the Measurement of Blood pH. A. GREGOROVIC, of the Department of Experimental Surgery (Glasnik's experimental clinic), Bratislava. Corresponding Member of SAV (Slovakian Academy of Sciences). Bratislavsko Lekarsko Listy, No 4, 1968. (Slovakian Academy of Sciences, Bratislava, 1968). (English summary.)
3. Pharmacotherapeutics of the Carotid Artery, Vertebral Arteries and Experience of the Doppler Ultrasonography. V. CERNY and E. KOLAR, of the 2nd Clinic of Surgery (Glasnik's Clinic), Faculty of Medicine (Bratislava). Bratislavsko Lekarsko Listy, No 4, 1968. (Slovakian Academy of Sciences, Bratislava, 1968). (English summary.)
4. Some Problems of Radical Radiotherapy of Bronchial Carcinoma. B. KUSNYR, of the Clinic of Radiotherapy (Radiotherapy Institute), Faculty of Medicine (Bratislava). Bratislavsko Lekarsko Listy, No 4, 1968. (Slovakian Academy of Sciences, Bratislava, 1968). (English summary.)
5. Electrophysiological Examination of the Muscular Tonus during Central Motor Block. R. KODVINSKA, of the Department of Clinical Electrophysiology (Glasnik's Clinic of Neurophysiology), J. GELBERG, Corresponding Member of SAV, director, of the Institute of Experimental Medicine (Maty's Experimental Medicine), Slovak Academy of Sciences (Slovakian Academy of Sciences), Bratislava, J. AMAL, Corresponding Member of SAV, director, pp 221-226.

1/2

PODVINSKIY, V.A.

Mechanism for a rapid displacement of the tailstock. Mashino-  
stroitel' no.4:25 Ap'64 (MIRA 17:7)

PODVISHENSKAYA, N. Ya

Cand. Tech. Sci.

Dissertation: "Analysis of filtration loss in small basins during rain  
floods." 26 Jun 49

Central Inst. of Weather Forecasting

SO Vecheryaya Moskva  
Sum 71

PODVISHENSKAYA, N. Ya.

"A Procedure for the Forecasting of the Abatement of Spring High Water."

SO: "Problems of Hydrological Weather Forecasts." No 30(57), 1953, page 100.

PODVISHENSKAYA, N. YA.

6543. Podvishenskaya, N. Ya. Ob Uchete. Uvlazhneniya. Pochvy v  
gidrologicheskikh prognozakh. Pod Red. S. G. yakushina. M. Gidrologicheskikh  
1954. 24 s. s. Graf. 22 sm. (Glav. Upr. Gidromete- Orol. Sluzhby Pri  
Sovete Ministrov. SSSR tsentr. In-T prognozov. Metod. ukazaniya. vyp.  
26 Gidrol. prognozy). 450 ekz. Bespl.-- Na Obl. Tol'ko zagl. serii. --  
(54-15644 zh) 551.48

SO: Knizhnaya Letopis' No. 6, 1955

Родивенко, Н. Я.

"Characteristics of the Moisture of Soil That Are Applicable in Hydrological Forecasts"

Meteorol. i Gidrologiya, No 2, 41-44, 1954

Using as an example six agrometeorological stations distributed in the southeastern and eastern parts of the European territory of the USSR, it is established according to empirical relations that the characteristic of the autumnal moisture of a basin according to precipitation ( $g$ ), which characteristic is employed in hydrological forecasts, reflects adequately the content of productive moisture in a 0.5 meter layer of the soil. It is recommended that  $g$  be computed according to the formula  $g = h_5 + h_n - z_n$ , where  $h_5$  is the total precipitation for the 5 days preceding freezing, and  $h_n$  and  $z_n$  are totals of precipitation and evaporation respectively for 30, 60, 90 or 120 days before the date when the air temperature passes through  $0^\circ$ , less the 5 days. (RZhGeol, No 1, 1955)

S0: Sum. 492, 12 May 55

SALAZANOV, Vladimir Vasil'yevich; FODVISHENSKAYA, N.Ya., kand.  
tekhn. nauk, otv. red.; CHEPELKINA, L.A., red.

[Spring runoff of the rivers in the upper Dnieper Basin;  
conditions governing their formation and the forecasting  
methods] Vesennii stok rek basseina Verkhnego Dnepra; us-  
lovia formirovaniia i metody prognozov. Leningrad, Gid-  
rometeoizdat, 1964. 141 p. (MIRA 17:6)

PODVISHENSKAYA, N. Ya.

USSR/Physics of the Hydrosphere - General Problems, N-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36244

Author: Kalinin, G. P., Podvishenskaya, N. Ya.

Institution: None

Title: Determination of the Volume of the Rain Runoff in River Basins

Original

Periodical: Tr. Tsentr. in-ta prognozov, 1956, No 48, 52-71

Abstract: The authors note the importance of determining the water losses in basins during calculations and forecasts of the rain runoff, and remark that supporting data exist for the development of better methods for calculating the runoff losses. These data are obtained from the presently available theoretical and experimental investigations on the seepage of water in the elementary sections of the basin. Cases are considered, in which the fundamental losses are caused by seepage. The problem is solved in 2 stages: first one determines the runoff losses in elementary sections, and then one calculates the losses incurred when the water runoff flows in the network of the

Card 1/3

USSR/Physics of the Hydrosphere - General Problems, N-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36244

Abstract: river beds. An assumption is made and justified that the duration of the infiltration in the elementary slopes of the network of creeks is equal to the duration of the precipitation. The ratio of the runoff losses during the time of rain to the runoff losses during the process of the flow from the creeks is written in the following form:  $\frac{F_{\text{basin}} i_{\text{in}} T_{\text{r}}}{F_{\text{c}} i_{\text{c}} T_{\text{c}}} = \eta$ , where  $F_{\text{bas}}$  is the area of the basin,  $i_{\text{in}}$  is the average intensity of infiltration into the basin,  $T_{\text{r}}$  -- the duration of the rain,  $T_{\text{c}}$  -- the duration of the flow in the creeks,  $F_{\text{c}}$  -- the average area occupied by the creeks,  $i_{\text{c}}$  -- the average intensity of infiltration in the creeks.

By way of examples of experimental data and theoretical considerations, which give an idea concerning the character of the intensity of the infiltration of the precipitation in the elementary slopes with time, a note is made of the investigations by Kashin (based on Kachinskiy's data), Alekseyev, and Bronovitskaya, the relationships and equations proposed by them are evaluated, and

Card 2/3

USSR/Physics of the Hydrosphere - General Problems, N-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36244

Abstract: the conditions under which they are valid are analyzed, and refinements are introduced.

The equation for the infiltration curve is assumed in the following form  $i_{in} = i_0 + \frac{A}{\sqrt{t}}$  and from it is derived an equation for the values of the parameters A for actual rain flood waters. It is recommended that the calculations represented by the equation for the infiltration be performed in the form of nomograms. An example is given of a detailed computation of the losses and of the flood-water runoff, of the graphical dependence between the fundamental parameters, and of a general procedure for the calculation, based on the use of a variable infiltration curve, indicating the physical and geographical features of the basin, as well as the variable hydrometeorological factors preceding and contributing to the formation of the runoff.

Card 3/3

PODVIŠHENSĀKAYA, N. YA.

ZMIYEVA, Ye.S.; PODVIŠHENSĀKAYA, N. Ya.

Distribution and dynamics of the snow blanket descent in river  
basins. Trudy TSIP no. 54:43-61 '57. (MLRA 10:8)  
(Snow) (Rivers)

PODVISHENSKAYA, N. Ya.

Forecasting the maximum level of floods. Trudy TSIP no. 24:43-54 '51.  
(Floods) (MIRA 11:4)

PODVISHENSKAYA, N. Ya.

Methods of forecasting the descent of spring floods. Trudy TSIP  
no.30:100-108 '53. (MIRA 11:3)

(Floods)

KALININ, G.P.; PODVISHENSKAYA, N.Ya.

Determining the runoff volume in river basins. Trudy TSIP no.48:  
52-71 '56. (Runoff) (MLRA 10:2)

PODVISHENSMOY, N.Ya., red.; MIRONENKO, Z.I., red.; VOLKOV, N.V., tekhn. red.

[Hydrological characteristics of rivers of the Zeya and Bureya  
basins] Gidrologicheskii ocherk rek basseinov Zei i Burei.  
Leningrad, Gidrometeor. izd-vo, 1958. 120 p. (Dal'nevostochnyi  
nauchno-issledovatel'skii gidrometeorologicheskii institut,  
Trudy, no.4) (MIRA 11:12)  
(Zeya-Bureya Plain--Hydrology)

PODVISHENSKAYA, N. Ye.

Method of forecasting water levels in the Amur River Basin. Trudy  
TSIP no. 68:45-99 '58. (MIRA 11:10)  
(Amur Valley--Hydrology)

PODVISHENSKAYA, N.Ya.; FEDINA, M.K.

Forecasting the inundation of river floodlands by snow melt and  
rain water. Trudy TSIP no.68:112-115 '58. (MIRA 11:10)  
(Floods)

№ Д-ВИС-ИЕНС-КАУ А, № 1А.

(7); 10(4) p2

PHASE I BOOK EXPLOITATION

SOV/2680

Leningrad. Tsentral'nyy institut prognozov

Issledovaniya formirovaniya stoka (Investigation of Runoff Formation)  
Moscow, Gidrometeoizdat, 1959. 129 p. (Series: Its: Trudy, vyp.  
82) Errata slip inserted. 900 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy  
sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): P.I. Milyukova; Ed. (Inside book): L.V. Blinnikov;  
Tech. Ed.: I.M. Zarkh.

**PURPOSE:** This issue of the Institute's Transactions is intended for hydrologists. It will also be of interest to hydrogeologists, geographers, soil scientists, and foresters.

**COVERAGE:** This collection of articles treats problems in the formation of runoff. Individual papers discuss the build-up of spring runoff waters in drainage basins located in plains regions, the effect of forest cover on runoff, and the possibility of forecast-

Card 1/2

PODVISHENSKAYA, N.Ya.

Time distribution of runoff for rain-fed rivers. Trudy TSIP 82:59-63  
'59. (Runoff) (MIRA 12:5)

PODVISHENSKAYA, N.Ya.

Study of the formation processes and calculation of runoff resulting from rains for small rivers taking into consideration previous moisture conditions. /Trudy TSIP no.105267-108 '60. (MIRA 14:1)  
(Runoff)

PODVISHENSKAYA, N.Ya.

Problems in the formation of runoff from rainfall and its  
forecast. Trudy TSIF no. 129:3-12 '64.

(MIRA 17:10)

L 8149-66 EWP(j)/EWT(m)/EPF(c) RPL WY/TJ/RM  
ACC NR: AP5027694 SOURCE CODE: UR/0062/65/000/010/1905/1907

AUTHOR: Zakharkin, L. I.; L'vov, A. I.; Podvisotskaya, L. S.

ORG: Institute of Organo-elemental Compounds, Academy of Sciences SSSR  
(Institut elementoorganicheskikh soyedineniy, Akademii nauk SSSR)

TITLE: Electron acceptor nature of the neobarene (neocarborane) system

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1965,  
1905-1907

TOPIC TAGS: organoboron compound, chemical reaction, chemical bonding

ABSTRACT: The possibility of rupturing the C-C bond in neobarene compounds was investigated. Electron acceptor properties in the neobarene system were found to be weaker than in the barene system. For instance, potassium phenylneobarene carboxylate was not decarboxylated in water as was the analogous phenylbarene. However, the C-C bond between the carbonyl carbon and the barene ring in neobarenyl ketones was readily split on treatment with sodium ethylate in ethanol, probably with the intermediate formation of a neobarenyl anion. Neobarenyl ketones were readily reduced with lithium aluminum hydride to the carbinol. An iodine atom connected to a carbon atom of the neobarene ring exhibits positive properties; it is readily exchanged

Card 1/2

UDC: 542.91+547.24

L 8149-66

ACC NR: AP5027694

for hydrogen when the iodoneobarene compound is treated with alcoholic KOH. Synthesis of ketones of the neobarene series was effected by reacting lithium derivatives of neobarene with acid chloroanhydrides. Orig. art. has: 11 equations.

SUB CODE: OC/ SUBM DATE: 01Mar65/ ORIG REF: 001/ OTH REF: 002

nw

Card 2/2

ZAKHARKIN, L.I.; PODVISOTSKAYA, L.S.

"Positive" character of halogen atoms in C-halobarenes. Izv.  
AN SSSR. Ser. khim. no.8:1464-1466 '65. (MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ZAKHARKIN, L.I.; KALININ, V.N.; PODVISOVSKAYA, L.S.

Preparation of B-hydroxybarytes by the action of nitric acid  
on barytes. Izv. AN SSSR. Ser. khim. no.9:1713 '65.  
(MIRA 18:9)

1. Institut elementoorganicheskikh soedineniy AN SSSR.

ZAKHARKIN, L.I.; L'VOV, A.I.; PODVECHINSKAYA, L.S.

Electron-acceptor character of the neobarene (nagorborane) system.  
Izv. AN SSSR.Ser.khim. no.10:1905-1907 1965.

(MIRA 18:10)

1. Institut elementoorganicheskikh soedineniy AN SSSR.

PODVLASOV, B.N.; SOBINKOV, A.I.

Valve of the windshield wiper of MTB-82D trolleybuses. Pats.  
predl. na gor. elektrotransp. no.9:10 '64.

(MIRA 18:2)

1. Upravleniye trolleybusa Kalugi.

PODVOLITSKIY, A. A.

"Investigation of Geometric Deviations in the Most Important Points of Inclined Ship's Steam Engines." Cand Tech Sci, Leningrad Inst of Water Transport Engineers, Leningrad, 1955. (KL, No 10, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

FODVOLOTSKIY, A.A., kand. tekhn. nauk, dotsent

Method of graphic analysis to check the position of a crank-  
shaft axis by the position angle of the crank arms. Trudy  
LIVT no.60:36-42 '64 (MIRA 18:2)

PODVOLOTSKIY, A.A., kand.tekhn.nauk

Inspecting ship shafting by means of superimposed pointers. Trudy  
LIIVT no.26:217-223 '59. (MIRA 14:9)  
(Shafting) (Ships--Equipment and supplies)

IGNATOK, A.I., inzh.; BETEREV, M.M., kand.tekhn.nauk, red.; PODVOL'SKIY, L.I., starshiy inzh., red.; EL'TERMAN, V.M., kand.tekhn.nauk, red.;  
KUGINIS, B.L., red.; VASIL'YEV, Ye.V., starshiy inzh., red.;  
NEVSKIY, A.I., inzh., red.; GLAGOLEVA, T.A., kand.tekhn.nauk, red.;  
VROBLEVSKIY, R.V., red.

[Safety engineering regulations and industrial hygiene in electric welding operations] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii pri elektrosvarochnykh rabotakh. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 38 p.

(MIRA 14:6)

1. Profsoyuz rabochikh mashinostroyeniya. TSentral'nyy komitet.
2. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov (for Beterev, El'terman, Glagoleva).
3. Nauchno-issledovatel'skiy tekhnologicheskii institut avtomobil'noy promyshlennosti (for Podvol'skiy).
4. Glavnyy tekhnicheskii inspektor TSentral'nogo komiteta profsoyuza (for Kuginis).
5. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya (for Vasil'yev).
6. Nachal'nik podotdela energo-oborudovaniya avtozavoda im. Likhacheva (for Nevskiy).
7. Vedushchiy inzh. Vsesoyuznogo proyektno-tekhnologicheskogo instituta stroitel'nogo i dorozhnogo mashinostroyeniya (for Vroblevskiy).

(Electric welding—Safety measures)

NOVOKRESHCHENOV, M.M.; PODVOL'SKIY, L.I.

Condenser discharge welding of seat frames of automobiles. Avt.  
prom. no.7:27-29 J1 '60. (MIRA 13:7)

1. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy  
promyshlennosti.

(Electric welding)

83684

1. 2300 ~~only 2208~~ also 2308S/135/60/000/010/006/015  
A006/A001AUTHORS: Novokreshchenov, M. M., Podvol'skiy, L. I., Senin, A. M., EngineersTITLE: Condenser Butt Welding of BT-1-2 (VT-1-2) Titanium and 1X18H9T (1Kh18N9T) Steel Pipes

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 10, pp. 20-22

TEXT: An investigation was made at NIIAVTOPROM of the condenser resistance welding of VT-1-2 titanium and 1Kh18N9T steel pipes of 10-23 mm in diameter and 1.0-1.5 mm wall thickness. The experiments were made on a laboratory machine equipped with a TKM-200-3-1 (TKI-200-3-1) transformer from the "Elektrik" plant. Pipe sections of 70 and 200 mm length were welded. One part of the pipes was surface-etched prior to welding. In all cases welding was performed without a gas shield. Optimum values were set up for the capacitance of the capacitor battery, the charging voltage, the up-setting force, the effective throat depth of the pipe from the insert electrodes and the transformation coefficient of the welding transformer. The conditions established (given in a table), were used to carry out control welds of pipes which were then tested as to the tightness, elongation and vibration strength of the welds. On account of the fact

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S/135/60/000/010/006/015  
A006/A001Condenser Butt Welding of BT-1-2 (VT-1-2) Titanium and 1X18H9T (1Kh18N9T) Steel Pipes

that in condenser welding cast metal is not present in the weld and the zone of the thermal effect does not exceed 0.1 mm, an attempt was made of eliminating heat treatment of VT-1-2 alloy pipes after welding. The pipes were not heat treated and were tested 6 months after welding. The steel and titanium pipes were consecutively subjected to hydraulic (300 atm), pneumatic (200 atm) tests, and to tests under vibration load with repeated hydraulic and pneumatic tests at the indicated pressure. Vibration tests were performed for 6 hours on a special stand (Fig. 4) in vertical direction at 45 to 50 cycles frequency and 1 ± 0.1 mm amplitude. 20 to 25 pipes of each diameter and grade were tested and no cases of breakdown or loss in tightness were stated. It is concluded that the described welding method produces strong and stable joints when welding VT-1-2 titanium and 1Kh18N9T steel pipes. There are no oxides, cracks or other defects in the butts. Heat treatment of VT-1-2 pipes can be eliminated. Preliminary etching which is necessary in argon arc welding is not required for condenser welding of Ti alloys, which may be carried out without shielding the butt zone. There are 5 figures and 1 table.

Card 2/2

NOVOKRESHCHENOV, M.M.; PODVOL'SKIY, L.I.

Electrostatic percussive welding of the frame for two-passenger seats of the PAZ-651 motorbus. Avto.prom. 27 no.6:35-36 Je '61.  
(MIRA 14:6)

1. Nauchno-issledovatel'skiy tekhnologicheskii institut  
avtomobil'noy promyshlennosti.  
(Electric welding)  
(Motor vehicles—Bodies)

ACC NR: AP6033030

(A)

SOURCE CODE: UR/0135/66/000/010/0024/0026

AUTHOR: Rybakov, Yu. V. (Candidate of technical sciences); Podvol'skiy, L. I.  
(Engineer)

ORG: none

TITLE: Properties of seam welded circular joints of thin-wall tubes from zirconium alloy

SOURCE: Svarochnoye proizvodstvo, no. 10, 1966, 24-26

TOPIC TAGS: zirconium alloy, niobium containing alloy, alloy tube, ~~tube welding~~,  
seam welding, ~~welded joint~~ mechanical property, ~~welded joint~~ corrosion resistance,  
*metal tube*

ABSTRACT: Telescopic joints of thin-walled tubes (10.3 x 0.65 mm) made from zirconium alloy with 1% niobium, after expanding and surface preparation, were seam welded under "mild" or "severe" welding conditions and then tested for mechanical properties in the as-welded condition and after 500, 2000, and 3000 hr exposure to corrosion in (H<sub>2</sub>O + Ar at 340C at a pressure of 150 kg/cm<sup>2</sup>. Circular test specimens were cut from the base metal, from weld metal, and from joints. The base-metal tensile strength was about 40 and 19.0 kg/mm<sup>2</sup> at 20 and 350C, respectively. The corresponding figures for the weld metal in the as-welded condition were 60 and 42.4 kg/mm, respectively. The elongation and reduction of area of the base metal were noticeably higher at 350C, while the weld-metal reduction of area increased by

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UDC: 621.791.763.3:62-462:546.831

ACC NR: AP6033030

only 1.5%, and the elongation even decreased slightly. All tested joints exhibited a satisfactory resistance against corrosion in a vapor-steam medium at 340C for 3000 hr. Welding conditions only slightly affected the microhardness of the metal of welded joints. The best surface preparation for welding the alloy consisted of degreasing, pickling for 40—60 sec in a solution of 45% $\text{HNO}_3$ , 5% $\text{HF}$  and 50% $\text{H}_2\text{O}$ , rinsing in water, and boiling for 3—4 hr in distilled water. The best combination of strength and ductility were obtained in joints made under severe welding conditions (current pulses of 7000 a of 0.02 sec duration with an interval of 0.56 sec between pulses, electrode pressure 155 kg, welding speed 50 mm/min) and subsequently annealed in vacuum at 700C for 30 min. After corrosion testing for 3000 hr, such joints had a tensile strength of 50 kg/mm<sup>2</sup> and a reduction of area of about 37%. Orig. art. has: 5 figures and 1 table.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 002

Card 2/2

PODVORCHANNAYA, N.I., kand.med.nauk (Moskva)

-----  
Maria Efimovna Kalabukhova. Med.sestra 17 no.12:38-39 D '58  
(MIRA 11:11)

(KALABUKHOVA, MARIA EFIMOVNA, 1902-)

POLTEVA, Yu.K.; PODVORCHANNAYA, N.I.; ZAYAGINTSEVA, S.G.; SHIRVINDT, B.G.

Dry dietetic sour milk. *Pediatrics* 38 no.10:81-82 0 '60.

(MIRA 13:11)

(MILK, DIRED)

PODVORCHANNAYA, N.I., kond.med.nauk

Blood prothrombin level and its fluctuations in pneumonia  
in infants under 1 year of age. *Pediatriia* 38 no.11:32-36.  
N '60. (MIRA 13:12)

1. Iz kafedry gosptal'noy pediatrii (prof.K.F.Popov) i Tsentral'-  
noy nauchno-issledovatel'skoy laboratorii II Moskovskogo medi-  
tsinskogo instituta imeni N.I.Pirogova na baze detskoy klinicheskoy  
bol'nitsy imeni N.F.Filatova (glavnyy vrach M.N.Kalugina). Nauchnyy  
rukovoditel' - prof.D.D.Lebedev.  
(PNEUMONIA in inf. & child)  
(PROTHROMBIN TIME)

PODWORCHANNAYA, N.I. [Podvorchanna, N.I.], kand.med.nauk

Disorder of the antitoxic function of the liver in pneumonia  
in children during the first year of life. Ped., akush. i gin.  
22 no.5:7-9 '60. (MIRA 15:6)

1. Kafedra gospiatal'noy pediatrii (zav. - prof. K.F. Popov) i  
TSentral'naya laboratoriya II Moskovskogo meditsinskogo instituta  
im. M.I. Pirogova, na baze Otskoy klinicheskoy bol'nitsy im.  
N.F. Filatova (glavnyy vrach - M.N. Kalugina [Kaluhina, M.N.]).  
(LIVER) (PNEUMONIA)

Podvorchanskiy, Ye. M.

AID P - 5174

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 15/19

Authors : Podvorchanskiy, Ye. M., A. G. Storozhik and D. A. Storozhik.

Title : Sectional - assembled milling cutters for machining specimens of complicated shape.

Periodical : Stan. 1 instr., 6, 43-44, Je 1956

Abstract : The authors describe a sectional milling cutter developed by them for machining parts of various profiles and complicated shapes with a use of a copying device. Three diagrams.

Institution : None

Submitted : No date

PODVORKOV, G. (?) and VAINSHTEIN, B.

Narodnoe khoziaistvo Tadzhistana za desiat let.  
Tajikistan during ten years. Auto-cart roads  
p. 175-190. Avto-guzhevye dorogi, p. 186).

[The national economy of  
(Planovoe khoz-vo, 1935, no. 2,  
DLC: HC331.P52

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,  
Reference Department, Washington, 1952, Unclassified.

ISSUES AND PROPERTIES INDEX

*M* **PODVOYSKAYA** *D. A.* 2

**\*Shrinkage of Aluminium Alloys on Solidification.** O. N. Podvoyskaya (Zhur. *Tekhnich. Fiziki (J. Tech. Physics)*, 1930, 8, 1626-1642; *C. Abs.*, 1940, 34, 2707).—[In Russian.] The volume change  $\Delta v$  of aluminium-silicon alloys due to solidification cannot be correctly determined by measuring the apparent weight of a sample immersed in a salt melt at temperatures above and below the freezing point, since the solidified metal contains bubbles and pores. Hence the sp. gr. of liquid alloys near the freezing point, the sp. gr. at 20° C., and the thermal expansion between 20° C. and a temperature approx. 50° C. below the freezing point were measured. From these results  $\Delta v$  was calculated to be: aluminium, 0.6; aluminium + silicon 1:8 + iron 0.2%, 0.7; aluminium + silicon 10:6 + iron 0.3%, 4.1; and aluminium + silicon 16:8 + iron 0.3% or 2.4%. For aluminium  $d_{20} = 2.707$  and for aluminium + silicon 15:1 + iron 0.4%,  $d_{20} = 2.633$ . The coeff. of expansion of aluminium between 20° and 600° C. is  $29 \times 10^{-6}$ ; the porosity of aluminium ingots increases with the silicon content. 34 references are given.

METALLURGICAL LITERATURE CLASSIFICATION

ISSUES AND PROPERTIES INDEX

BOKSHTEYN, S.Z.; KISHKIN, S.T.; NIKISHOV, A.S.; POLYAK, E.V.; SOLOV'YEVA, G.G.;  
Prinimali uchastiye: ARZHAKOV, V.M.; BULANOV, A.V.; VERTYUKOVA, L.G.;  
KORABLEVA; MIRSKIY, L.M.; PODVOYSKAYA, O.N.; SAZONOVA, T.N.;  
SOLOMINA, O.P.; TITARENKO, I.I.; RINK, L.P.; KOZLOVA, M.N.;  
YERMOLOVA, M.I.; MOROZ, L.M.

Aging of plastically deformed alloys. Metalloved. i term. obr.  
met. no.5:40-44 My '63. (MIRA 16:5)  
(Heat-resistant alloys--Hardening) (Deformations (Mechanics))

BOKSHTEYN, S.Z. (Moskva); KISHKIN, S.T. (Moskva); LOZINSKIY, M.G. (Moskva);  
SOKOLKOV, Ye.N. (Moskva); Prinimali uchastiye: PODVOYSKAYA, O.N.;  
ZILOVA, T.K.; SOROKINA, K.P.; POLYAK, E.V.; MOROZ, L.M.;  
BULYGIN, I.P.; LASHKO, N.F.; POKAMESTOVA, T.N.; GORDEYEVA, T.A.;  
YAGLOV, R.V.; VOLODINA, T.A.; KORABLEVA, G.N.; ANTIPOVA, Ye.I.

Thermomechanical treatment of chromium-nickel-manganese  
austenitic steel. Izv. AN SSSR. Otd. tekh. nauk. Met. i topl.  
no.2:15-21 Mr-Ap '62. (MIRA 15:4)  
(Chromium-nickel steel--Hardening)

FUCHKOV, I. I.

27210 FODVO SKIY, I. I. , FUCHKOV, A. M. - <sup>Triumph of Michurin's Theories</sup> Torzhestvo Michurinskikh Idey. (K 20-letiyu Vsesoyuz. Akad. S.-KH. Nauk Im. V. I. Lenina). Nauka I Zhizn', 1949, No. 7, s. 31-36.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949.

PODVOYSKIY, I.I.

Progressive scientist. Veterinaria 30 no.11:62-63 N '53.

(MLRA 6:11)

1. Uchenyy sekretar' seksii zhivotnovodstva Vsesoyuznoy Akademii  
sel'skokhozyaystvennykh nauk imeni Lenina.

LISKUN, Ye.F., akademik, redaktor; PODVOYSKIY, I.I., redaktor; VESKOVA, Ye.I.,  
tekhnikheskiy redaktor

[Problems in increasing milk production and milkfat content from cattle]  
Problemy povysheniya molochnoi produktivnosti i zhirnomolochnosti  
krupnogo rogatogo skota. Pod red. E.F.Liskuna i I.I.Podvoiskogo.  
Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 215 p. (MIRA 9:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina.  
(Dairying)

KUZNETSOV, I.M., prof., red.; ~~PODVOYSKIY, I.I., red.~~; ROMANOVICH, Ye.F.,  
red.; GUREVICH, M.M., tekhn. red.; BALLOD, A.I., tekhn. red.

[Fundamental problems of animal breeding] Osnovnye voprosy ple-  
mennogo dela. Pod red. I.M. Kuznetsova i I.I. Podvoiskogo. Moskva,  
Gos. izd-vo sel'khoz. lit-ry, 1956. 334 p. (MIRA 11:10)

1. Vsesoiuznaya Akademiya sel'skokhozyaystvennykh nauk imeni V.I.  
Lenina. 2. Zamestitel' predsedatelya seksii zhivotnovodstva (for  
Kuznetsov). 3. Uchenyy sekretar' seksii zhivotnovodstva (for  
Podvoyskiy).

(Stock and stockbreeding)

LYSENKO, T.D.; OL'SHANSKIY, M.A.; SINYAGIN, I.I.; GLUSHCHENKO, I.Ye.;  
VARUNTSYAN, I.S.; PREZENT, I.I.; SHCHERBINOVSKIY, N.S.; SHUNKOV,  
V.I.; YEVSTIGNEYEV, S.N.; BOCHEVER, A.M.; LITVIN, V.M.; YAYKOVA,  
A.T.; PODVOYSKIY, I.I.; SAKS, Ye.I.; KHALIFMAN, I.A.; FEYGINSON,  
N.I.; SHCHEGLOVA, Yu.N.; DLUGACH, G.V.; STERNIN, R.A.; LISOVSKAYA,  
O.V.; GUBINA, T.I.; ROZENFEL'D, M.I.; TSVETATEVA, Ye.M.; PARKHO-  
MENKO, Ye.V.; NEYMAN, N.F.

Sofia Iakovlevna Voitinskaia; an obituary. Agrobiologiya no.4:121  
Jl-Ag '58. (MIRA 11:9)  
(Voitinskaia, Sofi'ia Iakovlevna, 1898-1958)

*PODVOYSKIY, I.*

PODVOYSKIY, I.

Lenin Agricultural Exhibition Train. Nauka i pered. op. v  
sel'khoz. 8 no.1:69-70 Ja '58. (MIRA 11:2)  
(Agricultural exhibitions)

PODVOYSKIY, L.

Let's accelerate the construction of schools for chemical workers. Prof.-tekh. obr. 21 no.10:8 0 '64.

(MIRA 17:11)

1. Chlen kollegii Gosudarstvennogo komiteta po professional'no-tekhnicheskomu obrazovaniyu pri Gosplane SSSR.

11 AND IMP. GROUPS PROCESSES AND PROPERTIES INDEX

CO

9

Control of grain size in carbon and pre-eutectoid steels. Ya. L. Frid and L. N. Podvolski, *Zavodskaya Lab.* 5, 311-21 (1936).—The ~~size~~ of austenite grain size by the cementation method of H. W. McQuaid and E. W. Ehn can be substituted in the control of 0.3% C steels by the methods of normalization and tempering, which disclose the grain limits by the structural lattice of ferrite and troostite. The "entropy" (hardenability) of a steel depends on the tendency of the melt to grain growth; the hardenability rises with increasing size of original grains. The McQuaid-Ehn cementation method is suitable for the characterization of various types of pre-eutectoid steels, and is the only one disclosing the original grain size of austenite in soft steels (1010-1025). Chas. Blanc

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

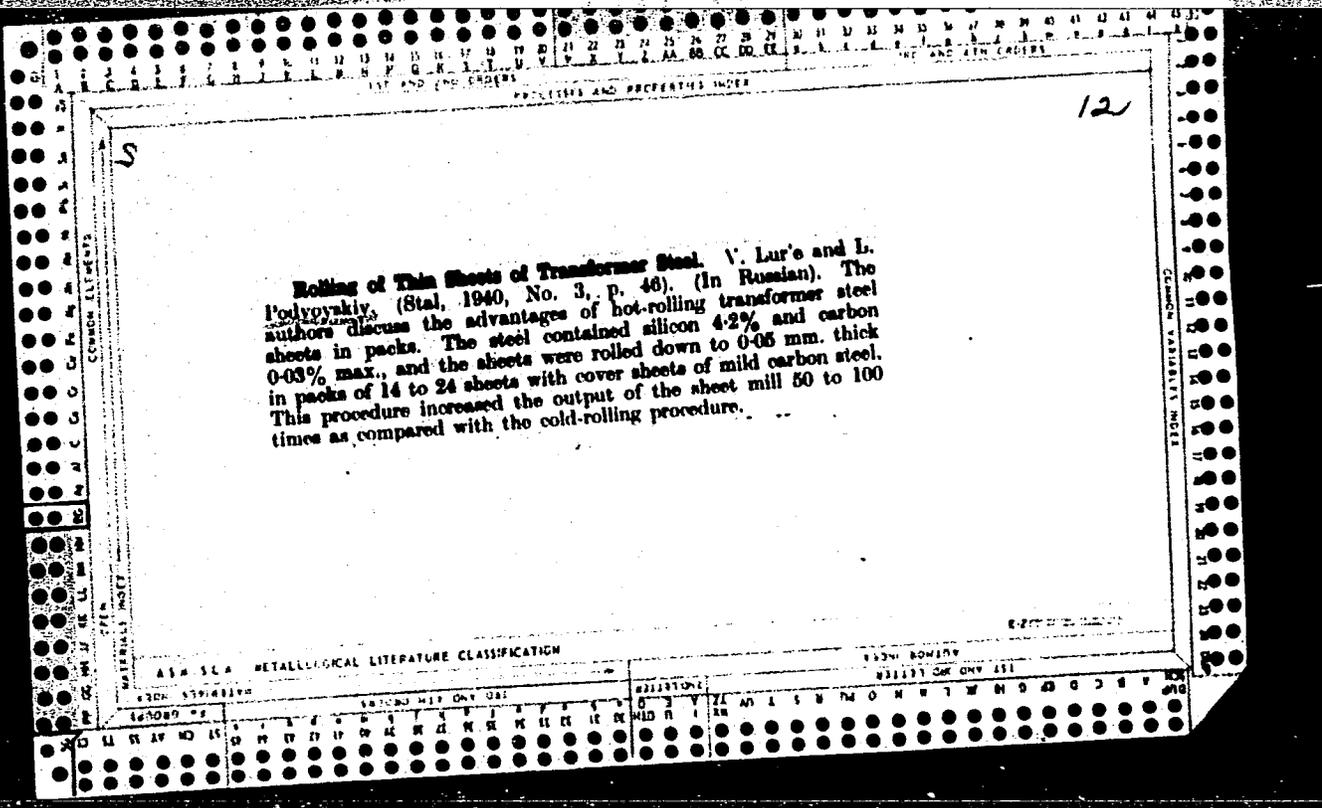
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CA

The influence of the structure and the initial grain size on the machinability of grooved steel. Ya. Frid and I. Podvinskii. *Stal* 8, No. 10, 63-8(1938); *Chem. Zentr.* 1939, II, 1381-2. — Other conditions being the same, the readiness with which steels contg. 0.30-0.54% C, 0.5-0.8% Mn, 0.17-0.37% Si and 0.08% (P + S) can be worked with cutting tools depends upon the structure of the steel. The best properties both as regards output of machined pieces and the cleanness of the machined surface are shown by steels with lamellar eutectoid structure. Steels with a grainy pearlite structure are essentially inferior in this respect. Steels having a sorbite-like pearlite structure occupy a position intermediate between these two. Tempered steels with a sorbite structure are less-readily machined than such steels which have been subjected to normal annealing or to a normalizing treatment. The heat-treatment giving the best workability is a normalizing at 880-900° with subsequent cooling in piles. For the production of the eutectoid with reticular, laminated structure the steels must possess a coarse initial structure. In fine-grained steels reticular, laminated pearlite is formed only when they are subjected to a normalizing at 950° and above, since these steels tend to form granular pearlite. Upon drawing, the mech. properties of steels with a granular pearlite structure undergo greater change in relation to the degree of reduction than those of steels with a laminated pearlite structure. M. G. Moore

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

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USSR/Metals - Steel, Casting

Feb 51

"From the Practice of Manufacturing Steel Castings of Higher Strength," L. N. Podvoyskiy, and V. P. Tunkov, Engineers, "Serp i Molot" Plant

"Litsey Proiz" No 2, pp 2-5

Describes and discusses numerous exptl melts of medium-carbon steel. Steel was made by both acid elec-arc and basic open-hearth processes. Establishes deoxidation by diffusion as best method and details procedure. Diffusion deoxidation results in min content of oxygen in metal at moment of addn of aluminum which factor provides for

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complete assimilation of aluminum and for min contamination of metal with alumina. Illustrated by numerous diagrams and tables.

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